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File:DERWENT

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TITLE:

Fibre structure for mfr. of yarns, fabrics and carpets - comprising linear low density polyethylene and other fibres, has improved dimensional stability, abrasion resistance and wear properties

INVENTOR:GEIMAN, J D; GUPTA, R K ; KOZULLA, R E ; LEGARE, R J ; MACLELLAN, R G

PATENT-ASSIGNEE: HERCULES INC[HERC]

PRIORITY-DATA: 1994US-0287973 (August 9, 1994) , 1996US-0642837 (May 3, 1996) , 1996US-0642839 (May 3, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5824613 A	October 20, 1998	N/A	000	D03D 003/00
EP 696654 A1	February 14, 1996	E	007	D01F 006/30
JP 08060510 A	March 5, 1996	N/A	006	D04H 001/54
CA 2155404 A	February 10, 1996	N/A	000	D01F 006/04
CN 1123854 A	June 5, 1996	N/A	000	D04H 005/00
US 5698480 A	December 16, 1997	N/A	005	D02G 003/00
US 5712209 A	January 27, 1998	N/A	006	D03D 003/00

DESIGNATED-STATES: BE CH DE DK FR GB IT LI

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PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
US 5824613A	Div ex	1994US-0287973	August 9, 1994
US 5824613A	N/A	1996US-0642839	May 3, 1996
EP 696654A1	N/A	1995EP-0305497	August 7, 1995
JP08060510A	N/A	1995JP-0202582	August 8, 1995
CA 2155404A	N/A	1995CA-2155404	August 3, 1995
CN 1123854A	N/A	1995CN-0116322	August 9, 1995
US 5698480A	N/A	1994US-0287973	August 9, 1994
US 5712209A	Div ex	1994US-0287973	August 9, 1994
US 5712209A	N/A	1996US-0642837	May 3, 1996

IPC: B32B005/24; B32B007/00 ; D01F006/04 ; D01F006/30 ; D02G003/00 ;

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D04H001/54 ; D04H005/00

ABSTRACTED-PUB-NO:EP 696654A

BASIC-ABSTRACT:Fibre (I) comprises 80 wt.% or more LLDPE having a m.pt. under 109deg.C. Also claimed are a fibre structure and a thermally consolidated fibre structure. PREFERRED ALERT - The fibre structure comprises (I) and other fibres, in the form of a multifilament yarn woven textile fabric, knitted textile fabric, tufted textile fabric, nonwoven textile fabric or carpet. The thermally consolidated fibre structure comprises (1) 3 wt.%, wrt. total wt. of the structure of lower melting fibres comprising 80 wt.% LLDPE, and (2) 97 wt.% or less wrt. total wt. of the structure, of non-melting fibres or fibres (I) having a m.pt. higher than the LLDPE fibres. The difference in m.pt. between the fibres is 10 deg.C or more. USE - For the mfr. of yarns, (non)woven fabrics, carpets and laminates. ADVANTAGE - Improved dimensional stability, abrasion resistance and wear properties.

ABSTRACTED-PUB-NO:US 5698480A

EQUIVALENT-ABSTRACT:Fibre (I) comprises 80 wt.% or more LLDPE having a m.pt. under 109 deg. C. Also claimed are a fibre structure and a thermally consolidated fibre structure. PREFERRED ALERT - The fibre structure comprises (I) and other fibres, in the form of a multifilament yarn woven textile fabric, knitted textile fabric, tufted textile fabric, nonwoven textile fabric or carpet. The thermally consolidated fibre structure comprises (1) 3 wt.%, wrt. total wt. of the structure of lower melting fibres comprising 80 wt.% LLDPE, and (2) 97 wt.% or less wrt. total wt. of the structure, of non-melting fibres or fibres (I) having a m.pt. higher than the LLDPE fibres. The difference in m.pt. between the fibres is 10 deg.C or more. USE - For the mfr. of yarns, (non)woven fabrics, carpets and laminates. ADVANTAGE - Improved dimensional stability, abrasion resistance and wear properties. Fibre (I) comprises 80 wt.% or more LLDPE having a m.pt. under 109 deg. C. Also claimed are a fibre structure and a thermally consolidated fibre structure. PREFERRED ALERT - The fibre structure comprises (I) and other fibres, in the form of a multifilament yarn woven textile fabric, knitted textile fabric, tufted textile fabric, nonwoven textile fabric or carpet. The thermally consolidated fibre structure comprises (1) 3 wt.%, wrt. total wt. of the structure of lower melting fibres comprising 80 wt.% LLDPE, and (2) 97 wt.% or less wrt. total wt. of the structure, of non-melting fibres or fibres (I) having a m.pt. higher than the LLDPE fibres. The difference in m.pt. between the fibres is 10 deg.C or more. USE - For the mfr. of yarns, (non)woven fabrics, carpets and laminates. ADVANTAGE - Improved dimensional stability, abrasion resistance and wear properties. Fibre (I) comprises 80 wt.% or more LLDPE having a m.pt. under 109 deg. C. Also claimed are a fibre structure and a thermally consolidated fibre structure. PREFERRED ALERT - The fibre structure comprises (I) and other fibres, in the form of a multifilament yarn woven textile fabric, knitted textile fabric, tufted textile fabric, nonwoven textile fabric or carpet. The thermally consolidated fibre structure comprises (1) 3 wt.%, wrt. total wt. of the structure of lower melting fibres comprising 80 wt.% LLDPE, and (2) 97 wt.% or less wrt. total wt. of the structure, of non-melting fibres or fibres (I) having a m.pt. higher than the LLDPE fibres. The difference in m.pt. between the fibres is 10 deg.C or more. USE - For the mfr. of yarns, (non)woven fabrics, carpets and laminates. ADVANTAGE - Improved dimensional stability, abrasion resistance and wear properties.

CHOSEN-DRAWING:Dwg.0/0 Dwg.0/0 Dwg.0/0

TITLE-TERMS:

FIBRE STRUCTURE MANUFACTURE YARN FABRIC CARPET COMPRISE LINEAR LOW DENSITY
POLYETHYLENE FIBRE IMPROVE DIMENSION STABILISED ABRASION RESISTANCE WEAR
PROPERTIES